



284894000.ST25.txt
SEQUENCE LISTING

<110> Chiu, Ing-Ming

<120> Transgenic animals for screening therapeutic agents for brain tumors

<130> 28489/04000

<140> 09/990249

<141> 2001-11-21

<150> US 60/252745

<151> 2000-11-22

<160> 2

<170> PatentIn version 3.1

<210> 1

<211> 23

<212> DNA

<213> Homo sapiens

<400> 1
acctgctgtt tccctggcaa ctc

23

<210> 2

<211> 6087

<212> DNA

<213> Artificial Sequence

<220>

<223> Nucleotides 1-594, human FGF1B promoter; 595-3233, SV40; 3234-608
Page 1

284894000.ST25.txt
7, PGL2-Basic plasmid vector (Promega)

```

<400> 2
cccgggagggt ccctttcatc cagcagcctt ctgactccag aggagagtct ccgagccacg      60
acctgctggtt tccctggcaa ctgaggcctc aaaataaaca ggattctgct cagacggggc      120
agaagtccat tcggctcaca catttgcccc aagacaaacc acgttaaaat aacacccagg      180
gtagctgctg ccaccgtctt ctgtctctac ctccctcctg gctggccaat ggctctgtgt      240
tcctgggcctt gctgctggct gtccagagta ggggttgctt agagctgtgt gcatccctgc      300
gggtggtgtg ggagtgggcg gttgtctaaa ggcagggtccc ctctactgat aaacaaggac      360
cggagataga cctagaggct gacattcttg gctccccag cctacacccc cccacctcg      420
atttcccaca gagccctagg gacgggtagc cagctctgtg gcatgggtatc tggaggcagg      480
ccagcaacct gatgtgcatg ccacggcccg tccctctccc cactcagagc tgcagtagcc      540
tggaggttca gagagccggg ctactctgag aagaagacac gatctaagta agctttgcaa      600
agatggataa agttttaaac agagaggaat ctttgagct aatggacctt ctaggtcttg      660
aaaggagtgc ctgggggaat attcctctga tgagaaaggc atatttaaaa aaatgcaagg      720
agtttcatcc tgataaagga ggagatgaag aaaaaatgaa gaaaatgaat actctgtaca      780
agaaaatgga agatggagta aaatatgctc atcaacctga ctttggaggc ttctgggatg      840
caactgaggt atttgcttct tccttaaate ctggtgttga tgcaatgtac tgcaaacaat      900
ggcctgagtg tgcaaagaaa atgtctgcta actgcatatg cttgctgtgc ttactgagga      960
tgaagcatga aaatagaaaa ttatacagga aagatccact tgtgtgggtt gattgctact     1020
gcttcgattg ctttagaatg tggtttgac ttgatcttg tgaaggaacc ttacttctgt     1080
ggtgtgacat aattggacaa actacctaca gagatttaaa gctctaagggt aaatataaaa     1140
ttttaagtgt tataatgtgt taaactactg attctaattg tttgtgtatt ttagattcca     1200
acctatggaa ctgatgaatg ggagcagtgg tggaatgcct ttaatgagga aaacctgttt     1260
tgctcagaag aaatgccatc tagtgatgat gaggctactg ctgactctca acattctact     1320
cctccaaaaa agaagagaaa ggtagaagac cccaaggact ttccttcaga attgctaagt     1380
tttttgagtc atgctgtggt tagtaataga actcttgctt gctttgctat ttacaccaca     1440
aaggaaaaag ctgactgct atacaagaaa attatggaaa aatattctgt aacctttata     1500
agtaggcata acagttataa tcataacata ctgttttttc ttactccaca caggcataga     1560
gtgtctgcta ttaataacta tgctcaaaaa ttgtgtacct ttagcttttt aatttgtaaa     1620
gggttaata aggaatatatt gatgtatagt gccttgacta gagatccatt ttctgttatt     1680
gaggaaagtt tgccagggtg gttaaaggag catgatttta atccagaaga agcagaggaa     1740
actaaacaag tgtcctggaa gcttgtaaca gagtatgcaa tggaacaaa atgtgatgat     1800

```

284894000.ST25.txt

gtgttggttat tgcttgggat gtacttgga	tttcagtaca gttttgaaat gtgtttaaaa	1860
tgtattaaaa aagaacagcc cagccactat	aagtaccatg aaaagcatta tgcaaagtct	1920
gctatatttg ctgacagcaa aaacaaaaaa	accatatgcc aacaggctgt tgatactgtt	1980
ttagctaaaa agcgggttga tagcctacaa	ttaactagag aacaaatgtt aacaaacaga	2040
tttaatgatc ttttggatag gatggatata	atgtttgggt ctacaggctc tgctgacata	2100
gaagaatgga tggctggagt tgcttggcta	cactgtttgt tgcccaaat ggattcagt	2160
gtgtatgact ttttaaaatg catggtgtac	aacattccta aaaaaagata ctggctgttt	2220
aaaggaccaa ttgatagtgg taaaactaca	ttagcagctg ctttgcttga attatgtggg	2280
gggaaagctt taaaigttaa tttgcccttg	gacaggctga actttgagct aggagtagct	2340
attgaccagt ttttagtagt ttttgaggat	gtaaagggca ctggagggga gtccagagat	2400
ttgccttcag gtcagggaat taataacctg	gacaatttaa gggattattt ggatggcagt	2460
gttaaggtaa acttagaaaa gaaacaccta	aataaaagaa ctcaaattt tccccctgga	2520
atagtcacca tgaatgagta cagtgtgcct	aaaacactgc aggccagatt tgtaaaacaa	2580
atagatttta ggcccaaaga ttatttaaag	cattgcctgg aacgcagtga gtttttgta	2640
gaaaagagaa taattcaaag tggcattgct	ttgcttctta tgtaatttg gtacagacct	2700
gtggctgagt ttgctcaaag tattcagagc	agaattgtgg agtggaaaga gagattggac	2760
aaagagttta gtttgtcagt gtatcaaaaa	atgaagtta atgtggctat gggaaattga	2820
gttttagatt ggctaagaaa cagtgatgat	gatgatgaag acagccagga aaatgctgat	2880
aaaaatgaag atggtgggga gaagaacatg	gaagactcag ggcatgaaac aggcatgat	2940
tcacagtccc aaggctcatt tcaggccccct	cagtcctcac agtctgttca tgatcataat	3000
cagccatacc acattttag aggttttact	tgctttaaaa aacctccac acctccccct	3060
gaacctgaaa cataaaatga atgcaattgt	tgttgttaac ttgtttattg cagcttataa	3120
tggttacaaa taaagcaata gcatcacaaa	tttcacaaat aaagcatttt tttcactgca	3180
ttctagttgt ggtttgtcca aactcatcaa	tgtatcttat catgtctgga tccgtcgacc	3240
gatgcccttg agagccttca acccagtcag	ctccttccgg tgggcgcggg gcatgactat	3300
cgtcgccgca cttatgactg tcttctttat	catgcaactc gtaggacagg tgccggcagc	3360
gctcttccgc ttcctcgctc actgactcgc	tgcgctcggt cgttcggctg cggcgagcgg	3420
tatcagctca ctcaaaggcg gtaatacgg	tatccacaga atcaggggat aacgcaggaa	3480
agaacatgtg agcaaaaggc cagcaaaagg	ccaggaaccg taaaaaggcc gcgttgctgg	3540
cgtttttcca taggctccgc cccctgacg	agcatcacia aaatcgacgc tcaagtcaga	3600
ggtggcgaaa cccgacagga ctataaagat	accaggcgtt tccccctgga agctccctcg	3660
tgcgctctcc tgttccgacc ctgccgtta	ccggatacct gtccgccttt ctcccttcgg	3720

284894000.ST25.txt

gaagcgtggc gctttctcaa tgctcacgct gtaggtatct cagttcgggtg taggtcgttc	3780
gctccaagct gggctgtgtg cacgaacccc ccgttcagcc cgaccgctgc gccttatccg	3840
gtaactatcg tcttgagtcc aacccggtaa gacacgactt atcgccactg gcagcagcca	3900
ctggtaacag gattagcaga gcgaggtatg taggcgggtgc tacagagttc ttgaagtgg	3960
ggcctaacta cggctacact agaaggacag tatttggtat ctgcgctctg ctgaagccag	4020
ttaccttcgg aaaaagagtt ggtagctctt gatccggcaa acaaaccacc gctggtagcg	4080
gtggtttttt tgtttgcaag cagcagatta cgcgagaaa aaaaggatct caagaagatc	4140
ctttgatctt ttctacgggg tctgacgctc agtggaaacga aaactcacgt taagggattt	4200
tggtcatgag attatcaaaa aggatcttca cctagatcct tttaaattaa aaatgaagtt	4260
ttaaatcaat ctaaagtata tatgagtaaa cttggtctga cagttaccaaa tgcttaatca	4320
gtgaggcacc tatctcagcg atctgtctat ttcgttcacat catagttgcc tgactccccg	4380
tcgtgtagat aactacgata cgggagggct taccatctgg cccagtgct gcaatgatac	4440
cgcgagaccc acgctcaccg gctccagatt tatcagcaat aaaccagcca gccggaaggg	4500
ccgagcgag aagtggctct gcaactttat ccgcctccat ccagtctatt aattgttgcc	4560
gggaagctag agtaagtagt tcgccagtta atagtttgcg caacgttggt gccattgcta	4620
caggcatcgt ggtgtcacgc tcgtcgtttg gtatggcttc attcagctcc gggtcccaac	4680
gatcaaggcg agttacatga tccccatgt tgtgcaaaaa agcgggttagc tccttcgggtc	4740
ctccgatcgt tgtcagaagt aagttggccg cagtgttatc actcatgggt atggcagcac	4800
tgcataattc tcttactgtc atgccatccg taagatgctt ttctgtgact ggtgagtact	4860
caaccaagtc attctgagaa tagtgtatgc ggcgaccgag ttgctcttgc ccggcgtcaa	4920
tacgggataa taccgcgcca catagcagaa ctttaaaagt gctcatcatt ggaâaacgtt	4980
cttcggggcg aaaactctca aggatcttac cgctgttgag atccagttcg atgtaacca	5040
ctcgtgcacc caactgatct tcagcatctt ttactttcac cagcgtttct gggtgagcaa	5100
aaacaggaag gcaaaatgcc gcaaaaaagg gaataagggc gacacggaaa tggtgaatac	5160
tcatactctt cttttttcaa tattattgaa gcatttatca gggttattgt ctcagagcg	5220
gatacatatt tgaatgtatt tagaaaaata aacaaatagg gggtccgcgc acatttcccc	5280
gaaaagtgcc acctgacgcg ccctgtagcg gcgcattaag cgcgggcgggt gtggtgggtta	5340
cgcgagcgt gaccgctaca cttgccagcg ccctagcgcc cgctccttcc gctttcttcc	5400
cttcctttct cgccacgttc gccggcttcc cccgtcaagc tctaaatcgg gggctccctt	5460
tagggttccg atttagtgct ttacggcacc tcgaccccaa aaaacttgat tagggtgatg	5520
gttcacgtag tgggccatcg ccctgataga cggtttttcg ccctttgacg ttggagtcca	5580

284894000.ST25.txt

cgttcttta tagtggactc ttgttccaaa ctggaacaac actcaaccct atctcgggtct	5640
attcttttga ttataaggg attttgccga tttcggccta ttggttaaaa aatgagctga	5700
tttaacaaaa atttaacgcg aattttaaca aaatattaac gtttacaatt tcccattcgc	5760
cattcaggct gcgcaactgt tgggaagggc gatcgggtgcg ggcctcttcg ctattacgcc	5820
agcccaagct accatgataa gtaagtaata ttaaggtagc tggaggtttt acttgcttta	5880
aaaaacctcc cacacctccc cctgaacctg aaacataaaa tgaatgcaat tgttggtgtt	5940
aacttgttta ttgcagctta taatggttac aaataaagca atagcatcac aaatttcaca	6000
aataaagcat ttttttcact gcattctagt tgtgggttgt ccaaactcat caatgtatct	6060
tatggtactg taactgagct aacataa	6087